

Remarks/Arguments

Applicant thanks the Examiner for the continued attention to the current application. Applicants have cancelled claims 1, 3, 10, 14, 15, 23, 24 and 26, and amended the remaining claims to clarify the invention in view of the Examiners remarks. Independent claim 1 has been replaced with new independent claim 27. Dependencies of the dependent claims have been amended accordingly. The amendments to the claims are supported by the application as originally filed, and in particular at page 11, line 17 to page 13, line 25.

Claim rejections – 35 USC § 102

The Examiner has maintained the rejection of claims 1-17, 20, 21, 25 and 26 for allegedly being anticipated by Macromedia. Applicants respectfully request reconsideration of the relevance of Macromedia in view of the amended claims, and for at least the reasons set forth below.

Macromedia describes how to write extensions for adding functionality to Dreamweaver. Dreamweaver is an application for creating web applications. The web applications that can be created using Dreamweaver comprise HTML elements for describing display elements, and Java Script for providing functionality to the web application. As described in the application as originally filed, not all web designers have the ability to write Java Script code, and so it would be desirable to provide web application developers the ability to program web application without requiring knowledge of Java Script (or other scripting languages).

From the teachings of the Macromedia reference, one skilled in the art could possibly create an extension for Dreamweaver to alleviate some of the Java Scripting requirements, for example an extension could add Java Script code to the web application. The Java Script code could, for example, animate a button described in HTML. Applicants note however, that both

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the extensions used within Dreamweaver, as well as a web application created using them, utilize Java Scripting to provide functionality. Although the web designer may not be generating the script code directly, knowledge of the scripting language may be required to modify the characteristics of the generated code.

By contrast, the current application teaches a system that can be used to provide a user interface to a web application that is described in an extended presentation markup language. Applicants note that the user interface, including functionality such as behaviour, of the web application is described by the developer using an extended presentation language and not Java Script.

The system comprises a collection of user interface control elements that can be used by the developer to create the web application, a collection of skin templates that describe how to display the user interface controls of the web application, and a collection of user interface control instructions for defining the behaviour of the user interface controls of the web application (for example describing the animation behaviour of a button). A user interface control element in the collection of control elements is associated with a skin template in the skin template collection and with control instructions of the collection of control instructions. The web application described in the extended presentation markup language references one or more of the control elements of the collection of control elements.

The system as described and currently claimed provides functionality that is not contemplated by the Macromedia reference. The system allows a user interface, including the functionality of the user interface, to be described in an extended presentation language without requiring any knowledge or use of Java Script.

Amended independent claim 27 clarifies that a user interface control can be included in a web application by referencing one of the control elements in a collection of control elements.

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The control elements in the collection include a namespace identifier that is used to identify user interface control elements, and a user interface control identifier that is referenced in the web application. The namespace identifier can advantageously be used to identify the user interface control elements when search the document object model (DOM). The control identifier also associates the control element with control instructions that define control behaviour. The control elements also include attributes, one of which associates the control element with a skin template describing how to display the control in the web application.

Applicants respectfully submit that Macromedia does not teach a web application that references a control element using an extended presentation language. Furthermore Macromedia fails to teach that the referenced control element is associated with skin templates for displaying the control element, and control instructions that define the behaviour of the control element.

Independent claim 16 has been amended to recite the method of using a system as recited in amended claim 27. The method comprises searching a DOM of the web application for control elements of the web application, by searching for nodes that include the namespace of control elements in a collection of the control elements. Once a control element has been found in the DOM, the method generates a function name based on the control identifier of the control element which calls instructions associated with that element. Applicants respectfully submit that the Macromedia reference does not teach this functionality.

For at least the reasons set forth above, Applicants respectfully submit that independent claims 27 and 16 recite subject matter that complies with 35 USC 102(b). The several claims directly or indirectly depend on claim 27 or claim 16 as the case may be also cannot be said to be anticipated by Macromedia.

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Furthermore, regarding claim 2, Applicants note that Macromedia fails to teach an initiation function associated with the viewer that processes the extended presentation markup language describing the web application. The initiation function searches through the nodes of the DOM and calls control instructions that are associated with control element nodes found that match a particular naming pattern.

Claim Rejections - 35 USC 103

The Examiner has rejected claims 18, 19 and 22 - 24, for allegedly being obvious in view of Macromedia in combination with Cain (US 6,014,138). Amended claims 18, 19 and 22 depend on independent claim 16. Claims 23 and 24 have been cancelled. Applicants respectfully submit that the teachings of Cain do not provide any teachings that one skilled in the art could apply to the teachings of Macromedia to overcome the deficiencies of the Macromedia reference set forth above with reference to independent claim 16. Thus, no combination of Macromedia and Cain reasonably could be said to achieve or render obvious claim 16, or claims 18, 19 and 22, which depend thereon.

Closing

In view of the amendments and remarks, and having dealt with all of the objections raised by the Examiner, reconsideration and allowance of the current application is courteously requested.

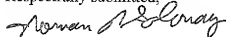
The \$1,110.00 fee for a three month extension of time is being submitted herewith via efs-web.

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Respectfully submitted,

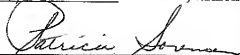


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